Translation

TENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P802078/WO/1	FOR FURTHER AC	TION	See Form PCT/IPEA/416
International application No.	International filing date	e (day/month/year)	Priority date (day/month/year)
PCT/EP2003/012936	19 November 200	03 (19.11.2003)	20 December 2002 (20.12.2002)
International Patent Classification (IPC) or n F02M 61/04	ational classification and	i IPC	
Applicant	DAIMLERCH	RYSLER AG	
This report is the international preling Authority under Article 35 and trans			International Preliminary Examining 6.
2. This REPORT consists of a total of	4 sheets,	including this cover s	sheet.
3. This report is also accompanied by	ANNEXES, comprising:		
a. (sent to the applicant and	l to the International Bur	reau) a total of 6	sheets, as follows:
sheets of the desc and/or sheets con Administrative Ir	taining rectifications aut	rawings which have b thorized by this Autho	een amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the
sheets which sup beyond the discle Supplemental Bo	osure in the international	t which this Authority I application as filed,	y considers contain an amendment that goes as indicated in item 4 of Box No. I and the
b. (sent to the Internatio	nal Bureau only) a t , contain ndicated in the Supplem	ning a sequence listin	rpe and number of electronic carrier(s)) ng and/or tables related thereto, in computer o Sequence Listing (see Section 802 of the
4. This report contains indications rela	ating to the following iter	ms:	
Box No. I Basis of the re	eport		
Box No. II Priority			
Box No. III Non-establish	ment of opinion with re	gard to novelty, inven	tive step and industrial applicability
Box No. IV Lack of unity	of invention		
	tement under Article 35(explanations supporting		elty, inventive step or industrial applicability;
Box No. VI Certain docum	nents cited		
Box No. VII Certain defec	ts in the international ap	plication	
Box No. VIII Certain obser	vations on the internatio	nal application	
Date of submission of the demand		Date of completion	of this report
16 July 2004 (16.07.2	2004)	24 J	January 2005 (24.01.2005)
Name and mailing address of the IPEA/EP		Authorized officer	
Facsimile No		Telephone No.	



Internation	plication No.
PC./E	P2003/012936

Box No.	. I	Basis of the report		
1. With other	regard wise in	I to the language, this report is based on ndicated under this item.	the international application in the lan	guage in which it was filed, unless
	This which	report is based on translations from the	e original language into the following for the purpose of:	g language,
		international search (under Rules 12.3	and 23.1(b))	
ļ		publication of the international application	tion (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
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furnis	shed to re not	annexed to this report):	invitation under Article 14 are referre	(replacement sheets which have been ed to in this report as "originally filed"
		nternational application as originally file	cd/furnished	
		escription:		
	pages		1, 5, 6	, as originally filed/furnished
	pages		received by this Authority on	25 November 2004 (25.11.2004)
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	the cl	aims:		
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	pages		received by this Authority on	25 November 2004 (25.11.2004)
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\boxtimes	the di	rawings:		
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	a sequ	uence listing and/or any related table(s) -	- see Supplemental Box Relating to Se	quence Listing.
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3. [Tile a		ttion of:	
	Ц	the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing		
4.	made	report has been established as if (some since they have been considered to a 70.2(c)).	go beyond the disclosure as filed, as	eport and listed below had not been indicated in the Supplemental Box
	=	the description, pages		
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	Ш	any table(s) related to sequence listing	(specify):	_
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* If iten	1 4 app	olies, some or all of those sheets may be	marked "superseded."	
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INTERNATIONAL PRELIMINA

EXAMINATION REPORT

International	application No.
PCT/EP	12936

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following document:

D1: DE 41 19 402 A

Document **D1** is considered the prior art closest to the subject matter of claim 1 and shows a sliding valve, from which the subject matter of claim 1 differs in that at least one elongated slot is provided in the sliding sleeve in the region of the control face.

The present invention can therefore be considered to address the problem of reducing the response times of the valve.

The solution to this problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

reducing the mass of a movable element such as the sliding sleeve would undoubtedly result in the element having a quicker reaction time, but the form that the reduction might take is not indicated in the cited prior art. Generally

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known and common solutions would also be available to a person skilled in the art, but these could not necessarily be readily implemented or applied.

Claims 2-11 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.

The claimed invention is industrially applicable.